	Der: 09/446, 4153 CRF Proc. Edited by	ossing Date: 6-3-02
Cha	anged a file from non-ASCII to ASCII	: M. SPEWER (STIC S
	anged the margins in cases where the sequence text was "wrapped" down to	the next line:
	ted a format error in the Current Application Data section, specificary	LEHED
	ted the Current Application Data section with the actual current number. The licant was the prior application data; or other	number inputted by the
Adde	led the mandatory heading and subheadings for "Current Application Data".	도 모
Edite	ed the "Number of Sequences" field. The applicant spelled out a number inst	ead of using an integer.
Char	inged the spelling of a mandatory field (the headings or subheadings), specific	
Cond	rected the SEQ ID NO when obviously incorrect. The sequence numbers that	2000 WITT
Inser	rted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's	edited:
applic	ected subheading placement. All responses must be on the same line as each cant placed a response below the subheading, this was moved to its appropriated colons after headings/subheadings. Headings edited included:	
Dele	eted: non-ASCII "garbage" at the beginning/end of files; secretary init page numbers throughout text; other invalid text, such as	tials/filename at end of file
Inser	erted mandatory headings, specifically: <u>42207</u> SEW ID #2	
	rected an obvious error in the response, specifically:	
Edite	ed identifiers where upper case is used but lower case is required, or vice ven	sa.
Corre	ected an error in the Number of Sequences field, specifically:	,
		•
А °На	lard Page Break* code was inserted by the applicant. All occurrences had to l	be d <u>e</u> leted.
Delete	ed <i>endIng</i> stop codon in amino acid sequences and adjusted the *(A)Length: a PatentIn bug). Sequences corrected:	* field accordingly (error

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

1600

RAW SEQUENCE LISTING DATE: 06/03/2002 PATENT APPLICATION: US/09/446,415B TIME: 10:54:04

Input Set : A:\ptoms.txt

Output Set: N:\CRF3\06032002\I446415B.raw

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3 <110> APPLICANT: Beamer, Lesa J.
         Eisenberg, David
 5
         Carroll, Stephen F.
  <120> TITLE OF INVENTION: BACTERICIDAL/PERMEABILITY-INCREASING PROTEI
        CRYSTALLIZATION, X-RAY DIFFRACTION, THREE-DIMENSIONAL
         STRUCTURE DETERMINATION, RATIONAL DRUG DESIGN AND
9
         MOLECULAR MODELING OF RELATED PROTEINS
10
12 <130> FILE REFERENCE: 11034US02
14 <140> CURRENT APPLICATION NUMBER: 09/446,415B
15 <141> CURRENT FILING DATE: 2000-07-19
17 <150> PRIOR APPLICATION NUMBER: 08/879,565
18 <151> PRIOR FILING DATE: 1997-06-20
20 <160> NUMBER OF SEQ ID NOS: 12
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27 <213> ORGANISM: Human
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43
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45 cct tgc aac gcg ccg aga tgg gtg tcc ctg atg gtg ctc gtc gcc ata
                                                                      102
46 Pro Cys Asn Ala Pro Arg Trp Val Ser Leu Met Val Leu Val Ala Ile
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                                   -15
49 ggc acc gcc gtg aca gcg gcc gtc aac cct ggc gtc gtg gtc agg atc
                                                                      150
50 Gly Thr Ala Val Thr Ala Ala Val Asn Pro Gly Val Val Val Arg Ile
            - 5
                            -1
                                 1
                                                                      198
53 tee eag aag gge etg gae tae gee age eag eag ggg aeg gee get etg
54 Ser Gln Lys Gly Leu Asp Tyr Ala Ser Gln Gln Gly Thr Ala Ala Leu
                        15
57 cag aag gag ctg aag agg atc aag att cct gac tac tca gac agc ttt
58 Gln Lys Glu Leu Lys Arg Ile Lys Ile Pro Asp Tyr Ser Asp Ser Phe
59
                    30
                                        35
                                                             40
```

61 aag atc aag cat ctt ggg aag ggg cat tat agc ttc tac agc atg gac

Input Set : A:\ptoms.txt

	Lys	Ile	Lys	His	Leu	Gly	Lys	Gly		Tyr	Ser	Phe	Tyr		Met	Asp	
63	2+0	cat	722	45 ttc	020	ott	000	2 M +	50	a a a	2+2	200	ata	55 ata	000	22+	342
				Phe													
67	116	ALG	60	FIIC	GIII	пец	FIO	65	Der	GIII	116	Det	70	Val	FIO	nsn	
	ata	aac		aag	ttc	tcc	atc		aac	acc	aat	atc		atc	age	aaa	390
				Lys													330
71	141	75	ДСи	1,5	1 110	001	80	501				85	170		501	011	
. –	aaa		ааσ	gca	caa	ааσ		tte	t.t.a	aaa	atσ		aac	aat.	ttt	gac	438
				Ala													100
75	90		_10		· · · ·	95	9			-1-	100		1			105	
		age	ata	gaa	aac.		tcc	att	tca	act		cta	aaq	cta	aac	agt	486
				Glu													
79					110					115			4		120		
	aac	ccc	acq	tca	aac	aaq	ccc	acc	atc	acc	tac	tcc	agc	tqc	aqc	agc	534
			_	Ser		_					_		_	_	_	_	
83				125	-	•			130		-			135			
85	cac	atc	aac	agt	qtc	cac	gtg	cac	atc	tca	aaq	agc	aaa	gtc	ggg	tgg	582
				Ser													
87			140					145			_		150		_	-	
89	ctg	atc	caa	ctc	ttc	cac	aaa	aaa	att	gag	tct	gcg	ctt	cga	aac	aag	630
	_			Leu										_		_	
91		155					160	-				165		_		_	
93	atg	aac	agc	cag	gtc	tgc	gag	aaa	gtg	acc	aat	tct	gta	tcc	tcc	aag	678
94	Met	Asn	Ser	Gln	Val	Cyś	Glu	Lys	Val	Thr	Asn	Ser	Val	Ser	Ser	Lys	
95	170					175					180					185	
97	ctg	caa	cct	tat	ttc	cag	act	ctg	cca	gta	atg	acc	aaa	ata	gat	tct	726
98	Leu	Gln	${\tt Pro}$	Tyr	Phe	Gln	Thr	Leu	Pro	Val	Met	Thr	Lys	Ile	Asp	Ser	
99					190					195					200		
																gct	774
		. Ala	Gly			Tyr	Gly	Leu			Pro	Pro) Ala			Ala	
103				205					210					215			_
																cac	822
		ı Thi			val	. Gln	Met			/ Glu	Phe	e Tyr			ı Asr	n His	
107			220					225					230				
																gcc	870
				Pro	Pro	Pne			Pro	o val	. Met			Pro) Ala	a Ala	
111		235					240					245					010
		_	_	_	_		_				_					aca	918
		_	Arc	, met	. vaı	_		СТУ	тег	ı ser	260	_	PHE	PILE	: ASI	Thr	
	250					255				- ~						265	066
																aga	966
119		r GTZ	Lec	ı vaı	. 191 270		GIU	Ата	GI	275		г груз	Met	. 1111	. Let	ı Arg	
		. ~~	+.	++				+ ~ ~				·		3.00			1014
																ttc Phe	1014
123	-	, wal	, riel	285		, пув	GIU	. ser	290		HIG	, הבת	. 1111	295	_	, FIIG	
			. 200			cct	gag	ata			מ ב ב	r +++	000			g aag	1062
																Lys	1002
	1 PNE				, ucu	FIC	, GIU	. A CT T	. чтс	. Lys	, Lys	. T.116		, WOI		- шyэ	

Input Set : A:\ptoms.txt

```
300
                                     305
     127
                                                          310
     129 ata cag atc cat gtc tca gcc tcc acc ccg cca cac ctg tct gtg cag
                                                                            1110
    130 Ile Gln Ile His Val Ser Ala Ser Thr Pro Pro His Leu Ser Val Gln
             315
                                 320
                                                      325
     133 ccc acc ggc ctt acc ttc tac cct gcc gtg gat gtc cag gcc ttt gcc
                                                                            1158
     134 Pro Thr Gly Leu Thr Phe Tyr Pro Ala Val Asp Val Gln Ala Phe Ala
                             335
                                                 340
     137 gtc ctc ccc aac tcc tcc ctg gct tcc ctc ttc ctg att ggc atg cac
                                                                            1206
    138 Val Leu Pro Asn Ser Ser Leu Ala Ser Leu Phe Leu Ile Gly Met His
    139
                         350
                                              355
     141 aca act ggt tcc atg gag gtc agc gcc gag tcc aac agg ctt gtt gga
                                                                            1254
     142 Thr Thr Gly Ser Met Glu Val Ser Ala Glu Ser Asn Arg Leu Val Gly
    143
                     365
                                          370
    145 gag etc aag etg gat agg etg etc etg gaa etg aag eac tea aat att
                                                                            1302
    146 Glu Leu Lys Leu Asp Arg Leu Leu Leu Glu Leu Lys His Ser Asn Ile
    147
                 380
                                     385
    149 ggc ccc ttc ccg gtt gaa ttg ctg cag gat atc atg aac tac att gta
                                                                            1350
    150 Gly Pro Phe Pro Val Glu Leu Leu Gln Asp Ile Met Asn Tyr Ile Val
             395
                                 400
    153 ccc att ctt gtg ctg ccc agg gtt aac gag aaa cta cag aaa ggc ttc
                                                                            1398
    154 Pro Ile Leu Val Leu Pro Arg Val Asn Glu Lys Leu Gln Lys Gly Phe
                             415
                                                 420
    157 cet etc eeg acg eeg gee aga gte eag etc tac aac gta gtg ett eag
    158 Pro Leu Pro Thr Pro Ala Arg Val Gln Leu Tyr Asn Val Val Leu Gln
    159
                         430
    161 cct cac cag aac ttc ctg ctg ttc ggt gca gac gtt gtc tat aaa
                                                                            1491
    162 Pro His Gln Asn Phe Leu Leu Phe Gly Ala Asp Val Val Tyr Lys
                                         450
                     445
    165 tgaaggcacc aggggtgccg ggggctgtca gccgcacctg ttcctgatgg gctgtggggc 1551
    167 accggctgcc tttccccagg gaatcctctc cagatcttaa ccaagagccc cttgcaaact 1611
    169 tettegaete agatteagaa atgatetaaa caegaggaaa cattatteat tggaaaagtg 1671
    171 catggtgtgt attttaggga ttatgagctt ctttcaaggg ctaaggctgc agagatattt 1731
    173 cctccaggaa tcgtgtttca attgtaacca agaaatttcc atttgtgctt catgaaaaaa 1791
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    189 Ser Leu Met Val Leu Val Ala Ile Gly Thr Ala Val Thr Ala Ala Val
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                                                   - 5
                                                                   -1
    192 Asn Pro Gly Val Val Val Arg Ile Ser Gln Lys Gly Leu Asp Tyr Ala
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                                          10
    195 Ser Gln Gln Gly Thr Ala Ala Leu Gln Lys Glu Leu Lys Arg Ile Lys
    196
                  20
                                      25
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Input Set : A:\ptoms.txt

198 199		Pro 35	Asp	Tyr	Ser	Asp	Ser 40	Phe	Lys	Ile	Lys	His 45	Leu	Gly	Lys	Gly
	His 50	Tyr	Ser	Phe	Tyr	Ser 55	Met	Asp	Ile	Arg	Glu 60	Phe	Gln	Leu	Pro	Ser 65
		Gln	Ile	Ser	Met 70		Pro	Asn	Val	Gly 75		Lys	Phe	Ser	Ile 80	
	Asn	Ala	Asn	Ile 85		Ile	Ser	Gly	Lys 90		Lys	Ala	Gln	Lys 95		Phe
	Leu	Lys	Met 100		Gly	Asn	Phe	Asp 105		Ser	Ile	Glu	Gly 110		Ser	Ile
	Ser	Ala 115		Leu	Lys	Leu	Gly 120		Asn	Pro	Thr	Ser 125		Lys	Pro	Thr
216	Ile 130	Thr	Cys	Ser	Ser	Cys 135		Ser	His	Ile	Asn 140		Val	His	Val	His 145
219		Ser	Lys	Ser	Lys 150		Gly	Trp	Leu	Ile 155		Leu	Phe	His	Lys 160	
	Ile	Glu	Ser	Ala 165		Arg	Asn	Lys	Met 170		Ser	Gln	Val	Cys 175		Lys
	Val	Thr		-	Val	Ser	Ser	_		Gln	Pro	Tyr			Thr	Leu
		Val	180 Met	Thr	Lys	Ile	_	185 Ser	Val	Ala	Gly		190 Asn	Tyr	Gly	Leu
	Val	195 Ala	Pro	Pro	Ala		200 Thr	Ala	Glu	Thr		205 Asp	Val	Gln	Met	
	210	~ 3	_,	_	_	215	_	•		_	220	_	_	5 1.		225
235	_	Glu		_	230					235					240	
238		Val		245					250					255		
241		Ser	260	_				265					270			
243 244	Gly	Val 275	Leu	Lys	Met	Thr	Leu 280	Arg	Asp	Asp	Met	11e 285	Pro	Lys	Glu	Ser
	Lys 290	Phe	Arg	Leu	Thr	Thr 295	Lys	Phe	Phe	Gly	Thr 300	Phe	Leu	Pro	Glu	Val 305
249 250	Ala	Lys	Lys	Phe	Pro 310	Asn	Met	Lys	Ile	Gln 315	Ile	His	Val	Ser	Ala 320	Ser
252 253	Thr	Pro	Pro	His 325		Ser	Val	Gln	Pro 330	Thr	Gly	Leu	Thr	Phe 335	Tyr	Pro
255 256	Ala	Val	Asp 340	Val	Gln	Ala	Phe	Ala 345	Val	Leu	Pro	Asn	Ser 350	Ser	Leu	Ala
258 259	Ser	Leu 355	Phe	Leu	Ile	Gly	Met 360	His	Thr	Thr	Gly	Ser 365	Met	Glu	Val	Ser
	Ala 370	Glu	Ser	Asn	Arg	Leu 375	Val	Gly	Glu	Leu	Lys 380	Leu	Asp	Arg	Leu	Leu 385
264 265	Leu	Glu	Leu	Lys	His 390	Ser	Asn	Ile	Gly	Pro 395	Phe	Pro	Val	Glu	Leu 400	Leu
	Gln	Asp	Ile	Met 405		Tyr	Ile	Val	Pro 410	Ile	Leu	Val	Leu	Pro 415		Val
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Input Set : A:\ptoms.txt

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271
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282 <211> LENGTH: 456
283 <212> TYPE: PRT
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287 <223> OTHER INFORMATION: bactericidal/permeability-increasing protein (BPI)
288
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                                 40
300 Gly His Tyr Ser Phe Tyr Ser Met Asp Ile Arg Glu Phe Gln Leu Pro
                             55
303 Ser Ser Gln Ile Ser Met Val Pro Asn Val Gly Leu Lys Phe Ser Ile
                        70
                                             75
306 Ser Asn Ala Asn Ile Lys Ile Ser Gly Lys Trp Lys Ala Gln Lys Arg
                                         90
309 Phe Leu Lys Met Ser Gly Asn Phe Asp Leu Ser Ile Glu Gly Met Ser
               100
                                    105
312 Ile Ser Ala Asp Leu Lys Leu Gly Ser Asn Pro Thr Ser Gly Lys Pro
                                120
315 Thr Ile Thr Cys Ser Ser Cys Ser Ser His Ile Asn Ser Val His Val
                            135
                                                140
318 His Ile Ser Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Phe His Lys
                        150
                                            155
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                    165
                                        170
324 Lys Val Thr Asn Ser Val Ser Ser Glu Leu Gln Pro Tyr Phe Gln Thr
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                                    185
327 Leu Pro Val Met Thr Lys Ile Asp Ser Val Ala Gly Ile Asn Tyr Gly
                                200
330 Leu Val Ala Pro Pro Ala Thr Thr Ala Glu Thr Leu Asp Val Gln Met
                            215
                                                220
333 Lys Gly Glu Phe Tyr Ser Glu Asn His His Asn Pro Pro Pro Phe Ala
                        230
                                            235
336 Pro Pro Val Met Glu Phe Pro Ala Ala His Asp Arg Met Val Tyr Leu
                    245
                                        250
339 Gly Leu Ser Asp Tyr Phe Phe Asn Thr Ala Gly Leu Val Tyr Gln Glu
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                                                        270
342 Ala Gly Val Leu Lys Met Thr Leu Arg Asp Asp Met Ile Pro Lys Glu
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                                280
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VERIFICATION SUMMARY
PATENT APPLICATION: US/09/446,415B
DATE: 06/03/2002
TIME: 10:54:05

Input Set : A:\ptoms.txt

Output Set: N:\CRF3\06032002\I446415B.raw

L:182 M:283 W: Missing Blank Line separator, <220> field identifier

Does Not Comply Corrected Diskette Needed



1600

RAW SEQUENCE LISTING DATE: 05/23/2002 PATENT APPLICATION: US/09/446,415B TIME: 17:01:31

Input Set : A:\11034US02.SEQ.txt

Output Set: N:\CRF3\05232002\I446415B.raw

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3 <110> APPLICANT: Beamer, Lesa J.
 4
        Eisenberg, David
 5
        Carroll, Stephen F.
 7 <120> TITLE OF INVENTION: BACTERICIDAL/PERMEABILITY-INCREASING PROTEIN:
8
        CRYSTALLIZATION, X-RAY DIFFRACTION, THREE-DIMENSIONAL
9
         STRUCTURE DETERMINATION, RATIONAL DRUG DESIGN AND
10
        MOLECULAR MODELING OF RELATED PROTEINS
12 <130> FILE REFERENCE: 11034US02
14 <140> CURRENT APPLICATION NUMBER: 09/446,415B
15 <141> CURRENT FILING DATE: 2000-07-19
17 <150> PRIOR APPLICATION NUMBER: 08/879,565
18 <151> PRIOR FILING DATE: 1997-06-20
20 <160> NUMBER OF SEQ ID NOS: 12
22 <170> SOFTWARE: PatentIn Ver. 2.1
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E>				-																		
	185	Met	Arg	Glu	Asn	Met	Ala	Arg	Gly	Pro	Cys	Asn	Ala	Pro	Arg	${\tt Trp}$	Val					
•	186		-30					-25					-20									
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		-15					-10					- 5				-1	_					
		Asn	Pro	Gly	Val	Val	Val	Arg	Ile	Ser	Gln	Lys	Gly	Leu		Tyr	Ala					
	192	_			5				_	10	_		_	_	15		_					
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	195	71 -	D	20	m	a		Q	25	.	71 -	*	77.2 -	30	a 1	T	01					
	197	ше	35	ASP	туг	ser	ASP		Pne	Lys	тте	ьуs		ьец	СТУ	Lys	GIY					
		uic		Cor	Dho	П.7.7×	Cor	40	λαν	Ile	λνα	Clu	45	Cln	LOU	Dro	Cor					
	201		тут	ser	FIIE	тут	55	Met	ASP	116	Alg	60	PHE	GIII	ьеu	PIO	65					
			Gln	Tle	Ser	Met		Pro	Agn	Val	Glv		Lvs	Phe	Ser	T1e						
	204	001	0111	110	DCI	70	, uı	110	11011	, a r	75	БСС	טעם	1 110	001	80	001					
		Asn	Ala	Asn	Ile		Ile	Ser	Glv	Lys	Trp	Lvs	Ala	Gln	Lvs	Arg	Phe					
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	209	Leu	Lys	Met	Ser	Gly	Asn	Phe	Asp	Leu	Ser	Ile	Glu	Gly	Met	Ser	Ile					
	210		-	100		•			105					110								
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Input Set : $A:\11034US02.SEQ.txt$

213		115					120					125				
215	Ile	Thr	Cys	Ser	Ser	Cys	Ser	Ser	His	Ile	Asn	Ser	Val	His	Val	His
216	130					135					140					145
218	Ile	Ser	Lys	Ser	Lys	Val	Gly	Trp	Leu	Ile	Gln	Leu	Phe	His	Lys	Lys
219		•			150					155					160	
221	Ile	Glu	Ser	Ala	Leu	Arg	Asn	Lys	Met	Asn	Ser	Gln	Val	Cys	Glu	Lys
222				165					170					175		
224	Val	Thr	Asn	Ser	Val	Ser	Ser	Lys	Leu	Gln	Pro	Tyr	Phe	Gln	Thr	Leu
225			180					185					190			
	Pro		Met	Thr	Lys	Ile	_	Ser	Val	Ala	Gly		Asn	Tyr	Gly	Leu
228	_	195			_	_	200	_	_			205				_
		Ala	Pro	Pro	Ala		Thr	Ala	Glu	Thr		Asp	Val	Gln	Met	_
	210	~ 1	1	_	_	215	_	'	•	_	220	_	_	5 1		225
	.GLY	GIU	Pne	Tyr		GIU	Asn	HIS	HIS		Pro	Pro	Pro	Pne	Ala	Pro
234	D	17_ 7		a 1	230	Dark	7 J -	3.1 a	TT -	235	N	Wat	77a 1	Ш	240	<i>α</i> 1
230	PLO	νал	мес	245	Pne	PIO	Ата	Ата	250	ASP	Arg	мес	val	255	Leu	GTÄ
	T OU	cor	λan		Dho	Dho	λan	Thr		Clv	LOU	Wa 1	Фттт		Glu	Δla
240	Leu	Ser	260	тут	FIIE	FIIC	ASII	265	нта	СТУ	neu	Val	270	GIII	Giu	ALU
	Glv	Va 1		T.v.c	Met	Thr	T.e.ii		Δsn	Asn	Met	Tle		Lvs	Glu	Ser
243	OLY	275	БСи	БуЗ	1100	1111	280	111 9	пор	p	1100	285	110		014	DCI
	Lvs		Ara	Leu	Thr	Thr		Phe	Phe	Glv	Thr		Leu	Pro	Glu	Val
	290		5			295	-1-			1	300					305
248	Ala	Lys	Lys	Phe	Pro	Asn	Met	Lys	Ile	Gln		His	Val	Ser	Ala	Ser
249		_	_		310			_		315					320	
251	Thr	Pro	Pro	His	Leu	Ser	Val	Gln	Pro	Thr	Gly	Leu	Thr	Phe	Tyr	Pro
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254	Ala	Val	Asp	Val	Gln	Ala	Phe	Ala	Val	Leu	Pro	Asn	Ser	Ser	Leu	Ala
255			340					345					350			
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		GLu	Ser	Asn	Arg		Val	GLY	Glu	Leu		Leu	Asp	Arg	Leu	
	370	01	T	T	TT 2	375		-1 -	a 1	D	380	D	17- 1	a 1	T	385
	Leu	GIU	ьеи	гàг		ser	Asn	тте	GTÀ		Pne	Pro	vaı	GIU	Leu	Leu
264	Cln	7 an	т1.	Wot	390	m	т1.	1721	Dro	395	T 011	Wa l	T 011	Dro	400	บรา
267	GIII	ASP	TTG	405	ASII	тут	116	Val	410	TTE	ьец	Val	ьеu	415	Arg	var.
	λen	Glu	T.vc		Gln	Tare	G1 v	Dho	-	T.011	Dro	Thr	Dro		Arg	Val
270	дзп	Giu	420	пец	GIII	цуз	GLY	425	110	пси	110	1111	430	niu	nrg	VUI
	G] n	Leu		Asn	Va l	Val	Leu		Pro	His	G] n	Asn		Leu	Leu	Phe
273		435	-1-		,		440					445				
	Gly		Asp	Val	Val	Tyr										
276	_					455										

VERIFICATION SUMMARY

DATE: 05/23/2002

PATENT APPLICATION: US/09/446,415B

TIME: 17:01:32

Input Set : A:\11034US02.SEQ.txt

Output Set: N:\CRF3\05232002\I446415B.raw

L:184 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:2